Dexter	Pilot operated Check valve sandwich plate Type Z2S			RE 21600/12.2004
	size 6、10 16、22	up to 31.5 MPa	up to 360L/min	Replace: 21547/05.2001 21551/05.2001 RE: 21556/05.2001 21560/05.2001

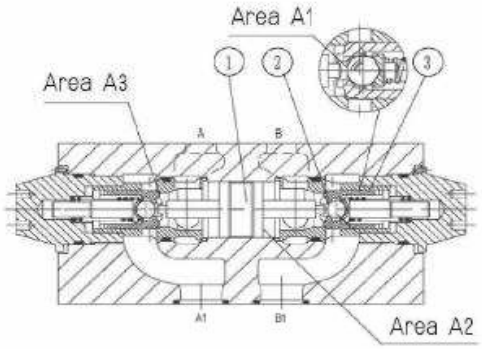
Features:

- For the leak free closure of one or two service ports
- Mounting pattern to DIN 24 340 form A,ISO 4401 and ETOP-RP 121H for use in vertical stacking assemblies

Functional, section

Hydraulic pilot operated check valves type Z2S are of sandwich plate design.
They are used for the leak-free closure of one or two service ports, even for long periods of time.
Free flow occurs from A1 to A2 or B1 to B2. Flow in the opposite direction is blocked.

In order to ensure correct closing of the valve, the service ports of the directional valve must be connected to tank in the neutral position.



Ordering details

Z2S | | | — | B | / | *

Further details in clear text

No code = Mineral oils
V = Phospate ester

Size 6 = 6
Size 10 = 10
Size 16 = 16
Size 22 = 22

20 = Series 20 to 29 (Apply to size 10)
(20 to 29: unchanged installation and connection dimensions)
30 = Series 30 to 39 (Apply to size 16, 22)
(30 to 39: unchanged installation and connectiondimensions)
40 = Series 40 to 49 (Apply to size 6)
(40 to 49: unchanged installation and connection dimensions)

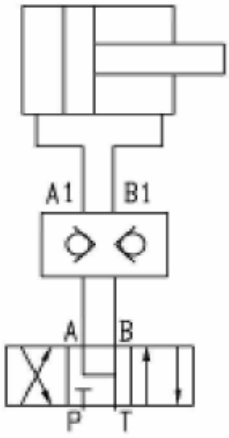
Leak free closure of ports A and B = No code

Leak free closure of port A =A

Leak free closure of port B =B

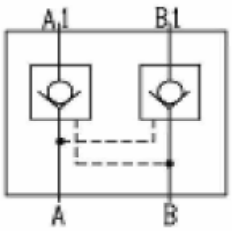
(only for size10)
1= Cracking pressure 0.15 MPa
2= Cracking pressure 0.3 MPa
3= Cracking pressure 0.6 MPa

Typical circuit example

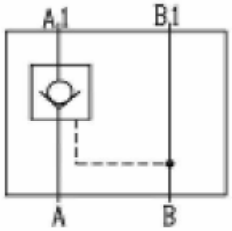


Symbols

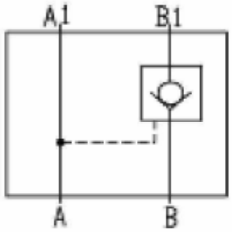
Z2S.../



Z2S...A.../



Z2S...B.../



Technical data

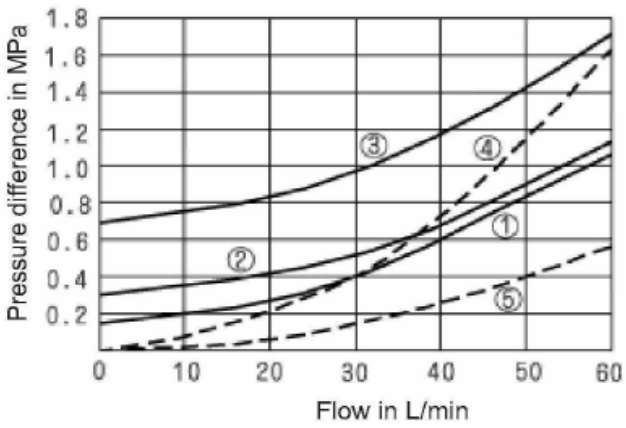
Size		6	10			16	22
Max. flow L/min	{L/min}	to 60	to 120			to 200	to 360
Max. operating pressure	{MPa}	31.5					
Cracking pressure	{MPa}	0.15	0.15	0.3	0.6	0.25	0.25
Directions		Flow freely via check valve from A to A1 or B to B1 pilot operated from B1 to B or A1 to A					
Area ratio		A1/A2=1:3	A1/A2=1:2.86 A3/A2=1:11.45			A1/A2=1:11.8 A3/A2=1:2.8	A1/A2=1:13.6 A3/A2=1:2.8
Pressure fluid		Mineral oils(for NBR seal) or phospate ester(for FPM seal)					
Pressure fluid temperature range	{°C}	-20 to +80					
Viscosity range	{mm²/s}	2.8 to 500					
Weight	{kg}	0.8	2			7	11.7

Characteristic curves (measured at ν = 41 mm² /s and t = 50°C)

Type Z2S6

——— = A → A1; B → B1
------ = A1 → A; B1 → B

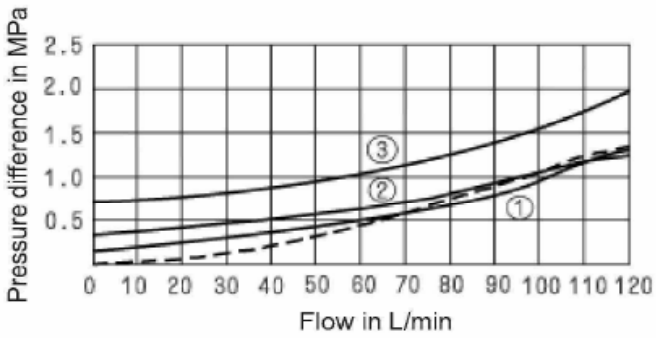
1、Normal caracking
2、Check valve cartridge
3、Flow freely
(without check valve)
4、Through check valve cartridge
5、Flow freely
(without check valve cartridge
Type "A" and type"B")



Type Z2S10

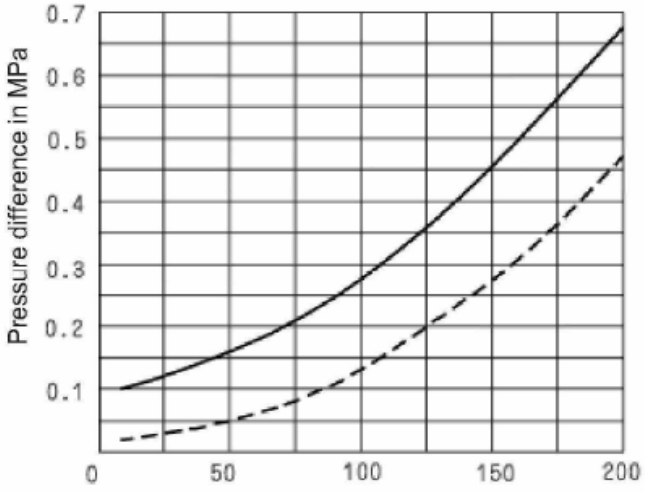
——— = A → A1; B → B1
------ = A1 → A; B1 → B

1、Cracking pressure 1 =0.15MPa
2、Cracking pressure 2 =0.3MPa
3、Cracking pressure 3 =0.6MPa

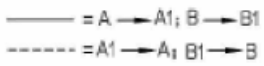


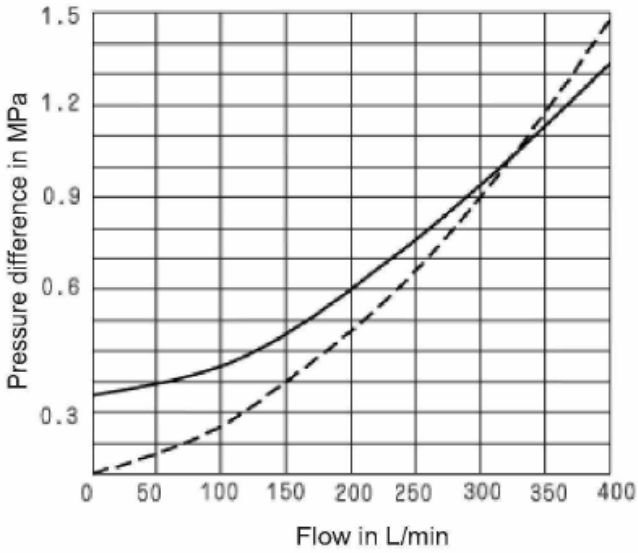
Type Z2S16

——— = A → A1; B → B1
------ = A1 → A; B1 → B

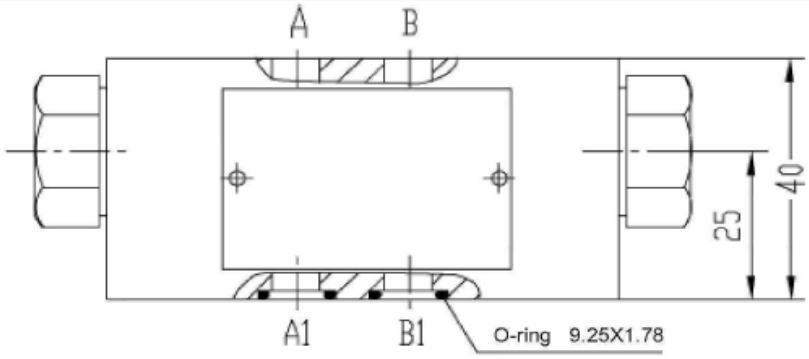


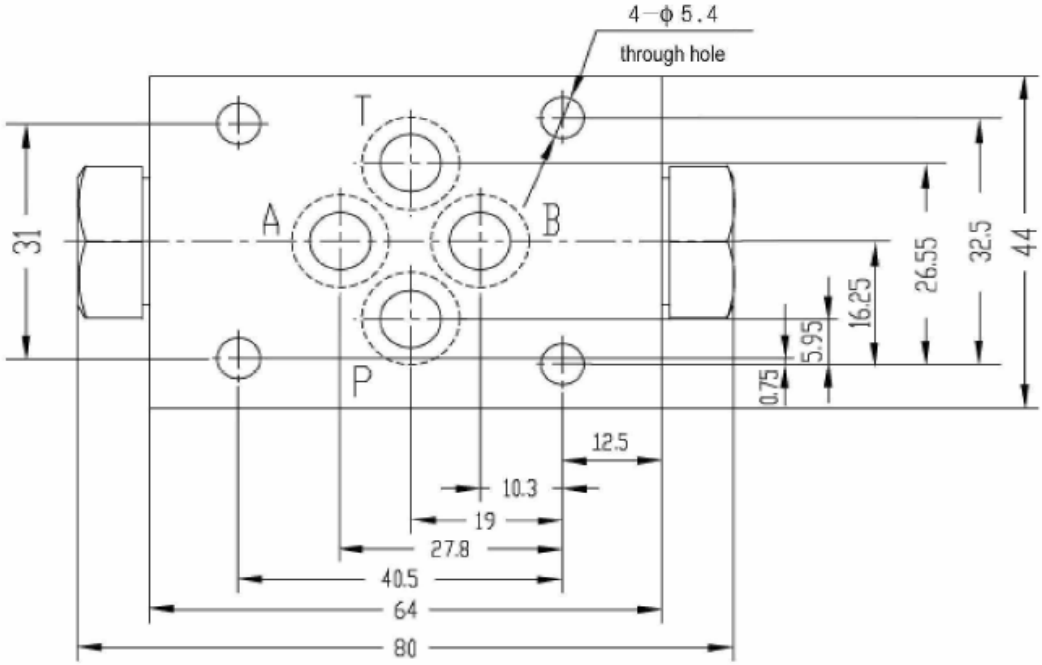
Type Z2S 22



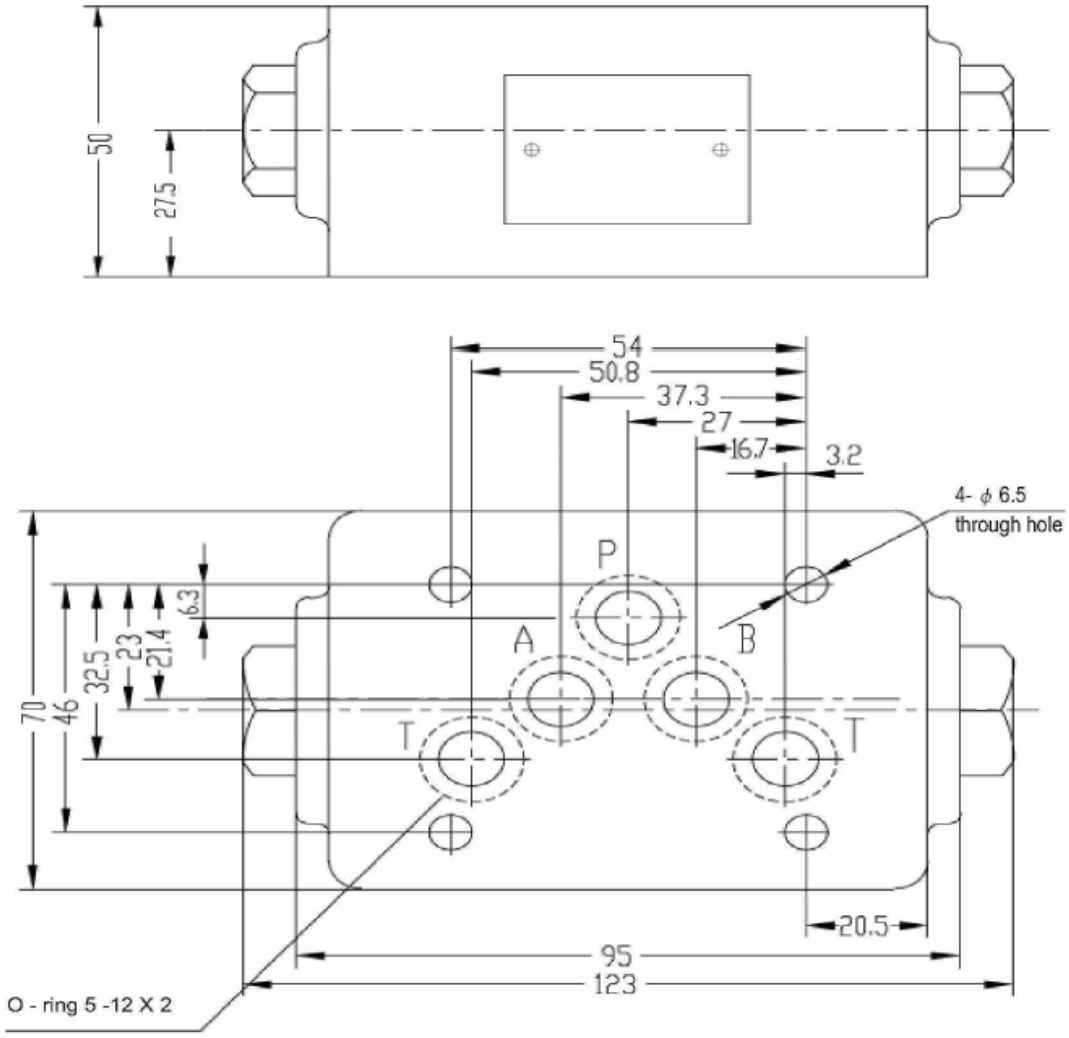


Unit dimensions : (Size6) **(Dimensions in mm)**



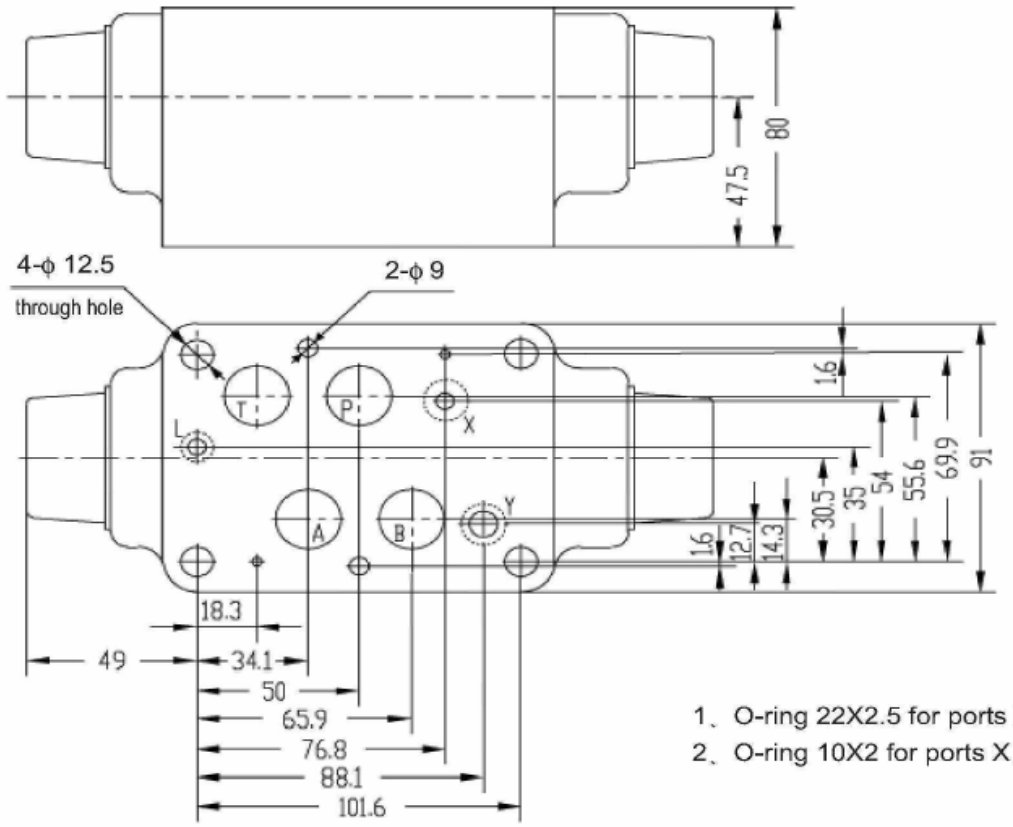


Unit dimensions: (Size10) **(Dimensions in mm)**



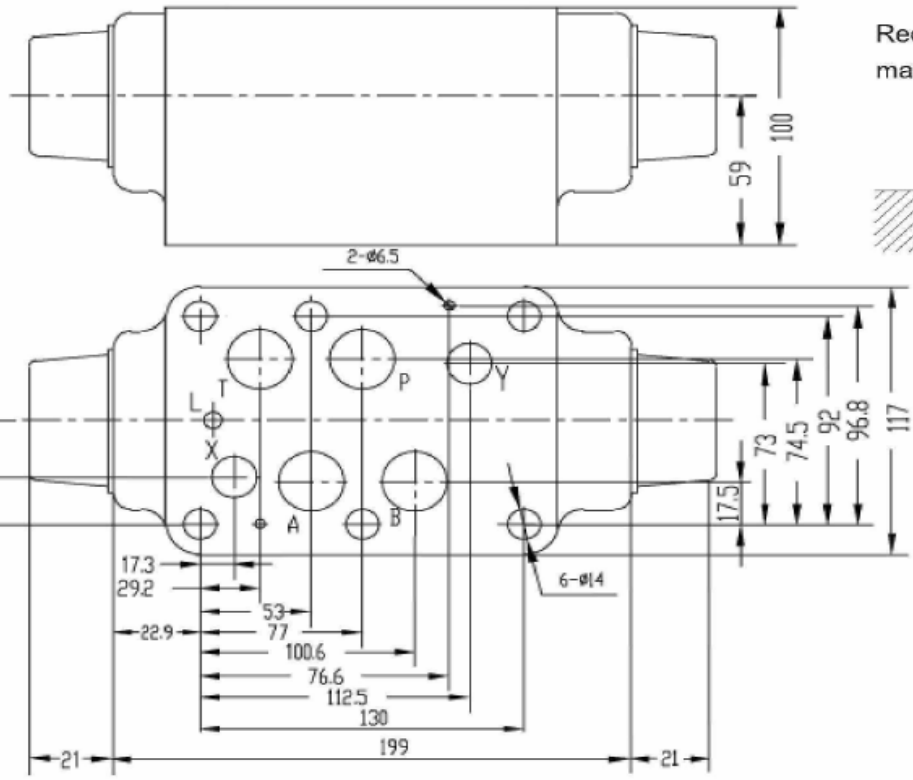
Unit dimensions **(Dimensions in mm)**

Size16

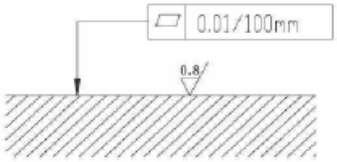


1、O-ring 22X2.5 for ports P、A、B、T
2、O-ring 10X2 for ports X、Y、L

Size22



Required surface finish of mating piece



1、O-ring 27X3 for ports P、A、B、T
2、O-ring 19X3 for ports X、Y、L

Dexter	Pilot operated Check valve sandwich plate Type Z2S (New Series)			RE 21601/12.2004
	Size 6、10 16、22	up to 31.5 MPa	up to 450L/min	

Features:

- For use in vertical stacking assemblies
- For the leak free closure of one or two service ports
- Porting pattern to Din 24 340 form A, ISO 4401 and CETOP-RP 121H

Functional, section

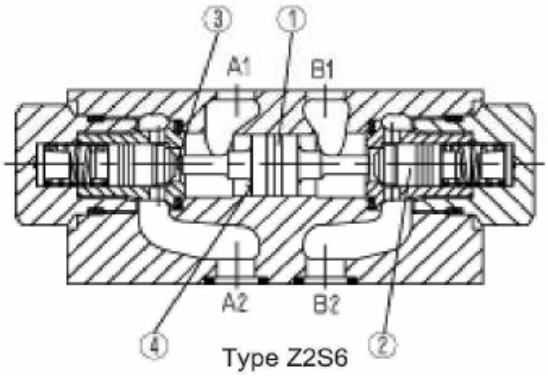
Hydraulic pilot operated check valves type Z2S are of sandwich plate design.

They are used for the leak-free clos[illegible] service ports,even for long periods [illegible]

Free flow occurs from A1 to A2 or E[illegible] the opposite direction is blocked.

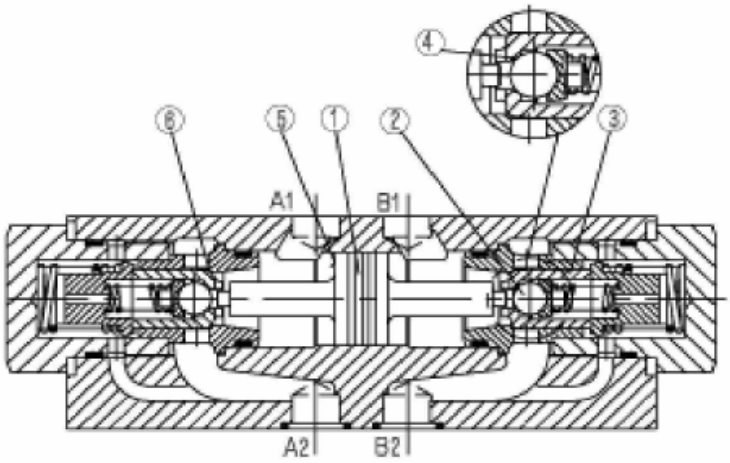
When fluid flows from A1 to A2, the [illegible] pressured and is pushed to the righ[illegible] opening the ball poppet valve (2) w[illegible] the poppet(3).

In order to ensure correct closing of[illegible] service ports of the directional valve[illegible] cted to tank in the neutral position.



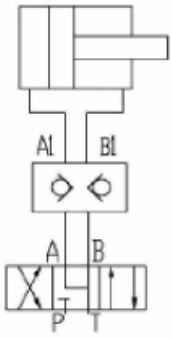
Type Z2S6

1 Spool
2 Ball poppet valve
3 Poppet
4 Area A1
5 Area A2
6 Area A3



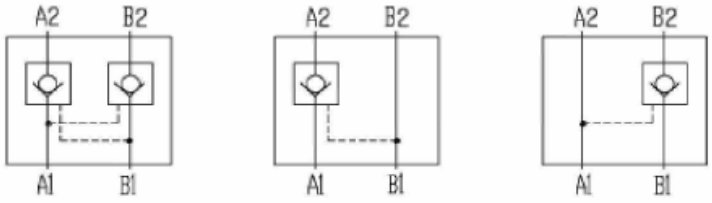
Type Z2S10

Typical circuit example



Symbols

Z2S.../ Z2S...A.../ Z2S...B.../



Ordering details

Z2S | | | — | B | / | *

Further details in clear text

No code = Mineral oils
V = Phospate ester

Size6 = 6
Size10 = 10
Size16 = 16
Size22 = 22

30 = Series 30 to 39 (Apply to size 10)
(30 to 39: unchanged installation and connection dimensions)
50 = Series 50 to 59 (Apply to size 16,22)
(50 to 59: unchanged installation and connection dimensions)
60 = Series 60 to 69 (Apply to size 6)
(60 to 69: unchanged installation and connection dimensions)

Leak free closure of ports A and B = No code

Leak free closure of port A = A

Leak free closure of port B = B

1 = Cracking pressure 0.15MPa (only for size6、10)
Cracking pressure 0.3MPa (only for size16、22)
2 = Cracking pressure 0.3MPa
Cracking pressure 0.5MPa (only for size 16,22)
3 = Cracking pressure 0.6MPa (only for size10)
Cracking pressure 0.7MPa (only for 6)
Cracking pressure 0.75MPa (only for 16、22)
4 = Cracking pressure 1.0MPa (only for 10、16、22)

Technical data

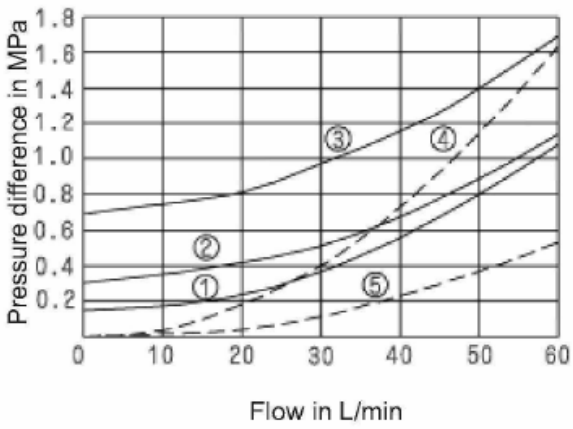
Size		6	10	16	22
Max. flow L/min	(L/min)	to 60	to 120	to 300	to 450
Max. operating pressure	(MPa)	31.5			
Cracking pressure	(MPa)	see curve			
Directions		see symbols			
Area ratio		A1/A2=1:3	A1/A2=1:11.45	A1/A2=1:11.8	A1/A2=1:13.6
			A3/A2=1:2.86	A3/A2=1:2.8	A3/A2=1:2.8
Pressure fluid		Mineral oils(for NBR seal) or phospate ester(for FPM seal)			
Pressure fluid temperature range	(℃)	-30 to +80			
Viscosity range	(mm^2/s)	2.8 to 500			
Weight	(kg)	approx. 0.8	approx. 3	approx. 6.5	approx. 12

Characteristic curves (measured at ν = 41 mm^2/s and t = 50 ℃)

Type Z2S6

——— = A1→A2; B1→B2
- - - - - = A2→A1; B2→B1

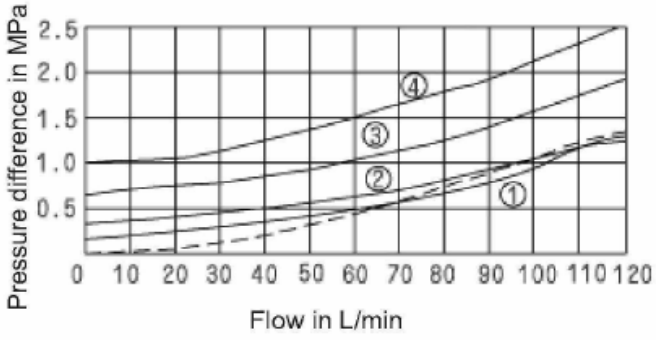
1、Cracking pressure 1=0.15MPa
2、Cracking pressure 2=0.3MPa
3、Cracking pressure 3=0.7MPa
4、Through check valve cartridge
5、Flow freely
(Without check valve cartridge type"A" and type"B")



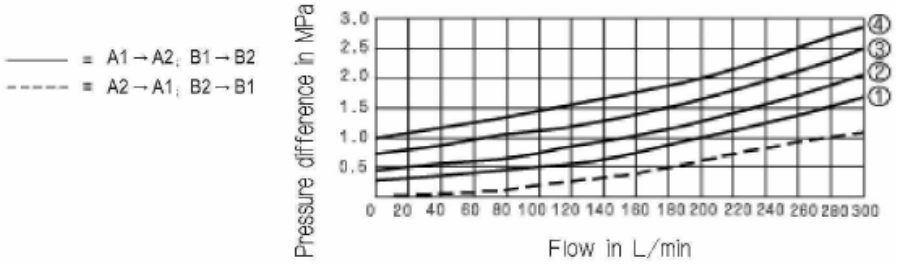
Type Z2S10

——— = A1→A2; B1→B2
- - - - - = A2→A1; B2→B1

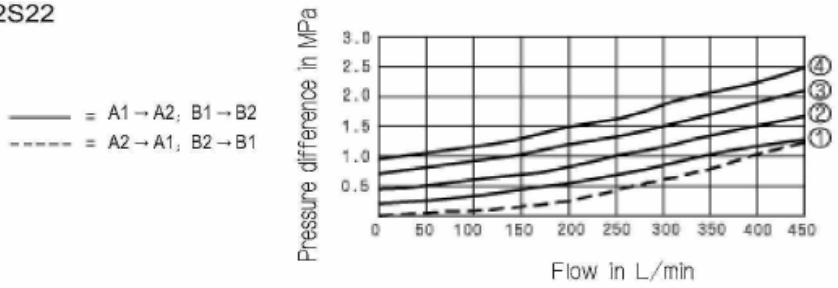
1、Cracking pressure 1=0.15MPa
2、Cracking pressure 2=0.3MPa
3、Cracking pressure 3=0.6MPa
4、Cracking pressure 4=1.0MPa



Type Z2S16

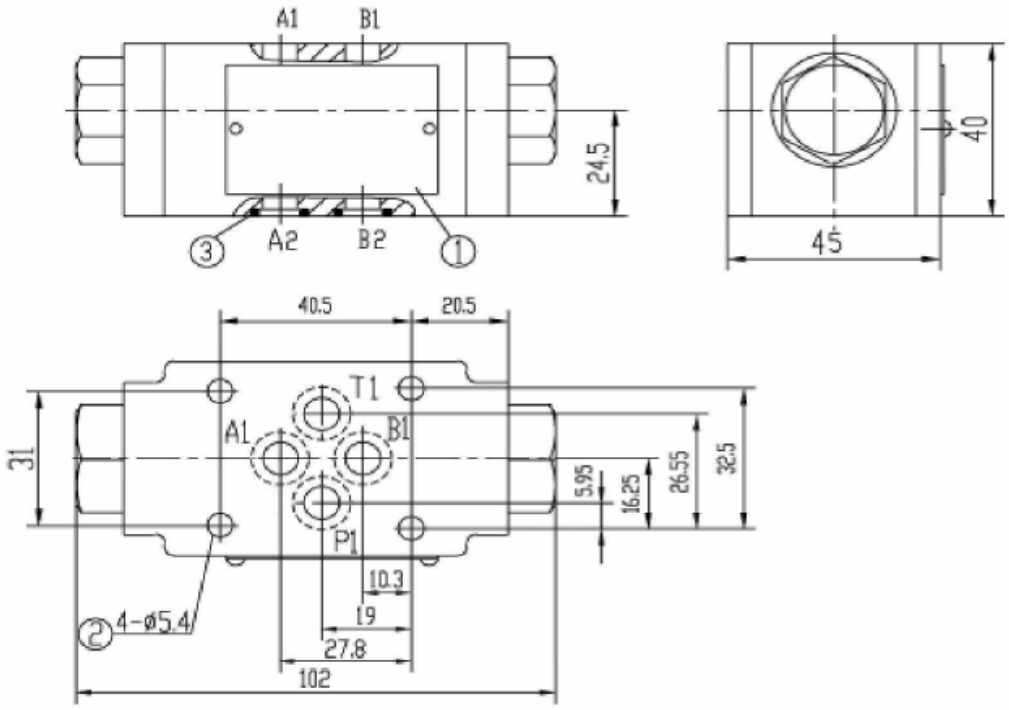


Type Z2S22



Unit dimensions **(Dimensions in mm)**

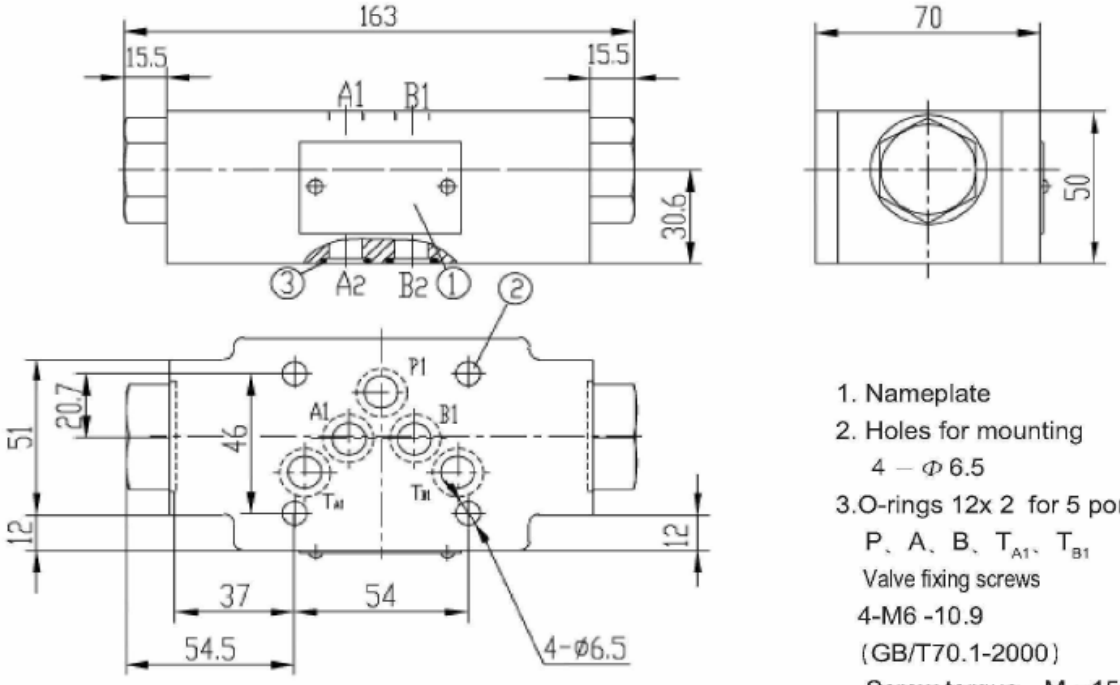
Size6



1. Name plate
2. Holes for mounting
3. O-rings 9.25 x 1.78 for four ports
   Valve fixing screws 4 - M5 -10.9
   (GB/T70.1-2000)
   Screw torque:M_A=8.9Nm

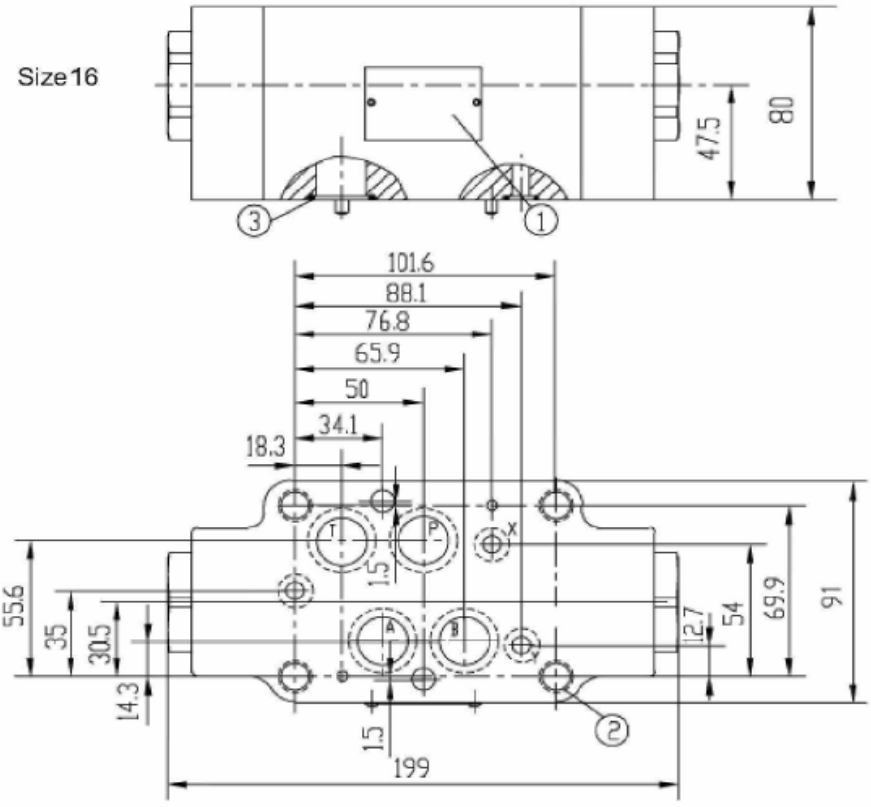
Unit dimensions **(Dimensions in mm)**

Size10



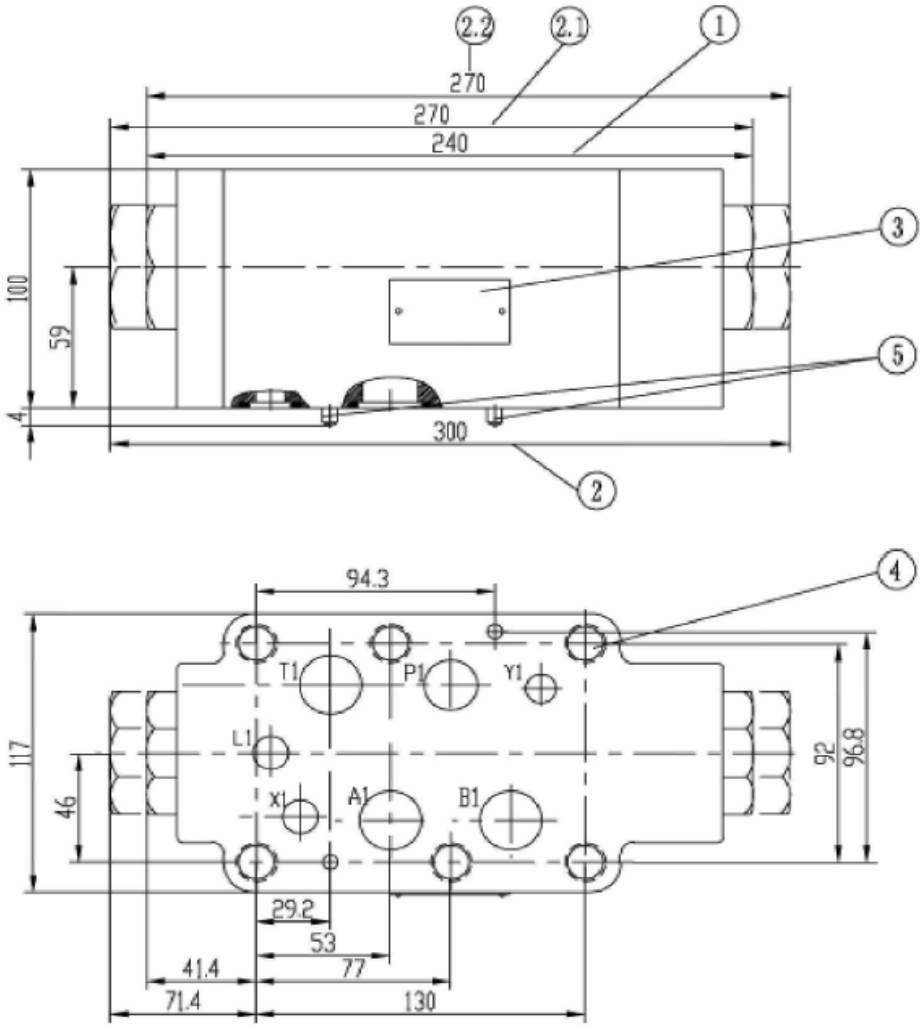
1. Nameplate
2. Holes for mounting
   4 — Φ 6.5
3. O-rings 12x 2 for 5 ports
   P、A、B、T_{A1}、T_{B1}
   Valve fixing screws
   4-M6 -10.9
   (GB/T70.1-2000)
   Screw torque： M_A=15.5Nm

Size16



1. Nameplate
2. Holes for mounting
3. O-rings 22x 2.5 for ports
   P、A、B、T
   10X2 for ports X、Y、L
   Valve fixing screws:
   ① 4-M10 -10.9
   (GB/T70.1-2000)
   Screw torque:M_A=75Nm
   ② 2-M6 -10.9
   (GB/T70.1-2000)
   Screw torque： M_A=15.5Nm

Size22



1 Cracking pressure 0.3MPa or 0.5MPa, Leak free closure of ports A and B

2 Cracking pressure 0.75MPa or 1.0MPa, Leak free closure of ports A and B

2.1 Cracking pressure 0.75MPa or 1.0MPa, Leak free closure of port A

2.2 Cracking pressure 0.75MPa or 1.0MPa, Leak free closure of port B

3 Label plate

4 Valve fixing screws:
6- M14-10.9 (GB/T70.1-2000),
Screw torque:M_A=205Nm

5 Fixing pin

Required surface finish of mating piece